

In the Claims

Claims 1, 3, 5, 6, 7, 12, 14, 15, 16, 19, 27 and 28 are amended.

Claims 4, 13, 21 and 32 are canceled without prejudice.

Claims 1-3, 5-12, 14-20, 22-31 and 33-35 remain in the application

5 and are listed below:

1. (Currently Amended) A printing apparatus comprising:
a printer configured to print upon print media; and
a printer monitor associated with the printer and configured to monitor one
10 or more variables or parameters associated with the security of the printer, wherein
at least one of said variables or parameters is associated with I/O activities of data
that is to be or has been printed on the printer.

2. (Original) The printing apparatus of claim 1, wherein the printer
15 monitor is configured to generate one or more notifications to a printer authority in
an event of a security breach associated with the printer.

3. (Currently Amended) The printing apparatus of claim 1, wherein at
least some other of the one or more variables or parameters are associated with the
20 security of documents that are printed on the printer.

4. (Canceled).

5. (Currently Amended) The printing apparatus of claim 1, wherein at least some other of the one or more variables or parameters are associated with memory usage activities.

5 6. (Currently Amended) The printing apparatus of claim 1, wherein at least some other of the one or more variables or parameters are associated with data ratios pertaining to an amount of data transmitted by the printer versus an amount of data received by the printer.

10 7. (Currently Amended) The printing apparatus of claim 1, wherein at least some other of the one or more variables or parameters are associated with the volume of data transmitted by the printer.

8. (Original) The printing apparatus of claim 1, wherein the printer
15 monitor is external to the printer.

9. (Original) The printing apparatus of claim 1, wherein the printer monitor is internal to the printer.

20 10. (Original) The printing apparatus of claim 9, wherein the printer monitor comprises an applet running in the printer's runtime environment.

11. (Original) The printing apparatus of claim 9, wherein the printer monitor is configured to monitor multiple different applications on the printer.

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12. (Currently Amended) A printing apparatus comprising:

a printer; and

a printer monitor associated with printer and configured to monitor one or more usage profiles associated with the printer, the one or more usage profiles

5 being independent of profiles associated with print job management or printer consumables management, wherein at least one usage profile is defined in terms of one or more variables or parameters associated with I/O activities of data that is to be or has been printed on the printer.

10 13. (Canceled).

14. (Currently Amended) The printing apparatus of claim 12, wherein at least one other of the one or more usage profiles are defined in terms of one or more variables or parameters associated with memory usage activities.

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15. (Currently Amended) The printing apparatus of claim 12, wherein at least one other of the one or more usage profiles are associated with the security of the printer.

20 16. (Currently Amended) The printing apparatus of claim 12, wherein at least one other of the one or more usage profiles are associated with documents that are printed on the printer.

25 17. (Original) The printing apparatus of claim 12, wherein the printer monitor is disposed internally of the printer.

18. (Original) The printing apparatus of claim 12, wherein the printer monitor is disposed externally of the printer.

5 19. (Currently Amended) A printer management method comprising:
monitoring one or more variables or parameters associated with the security
of a printer, wherein at least one of the one or more variables or parameters is
associated with I/O activities of data that is to be or has been printed on the printer;
and
10 generating a notification if it appears likely that there has been a security
breach.

20. (Original) The printer management method of claim 19, wherein
said monitoring comprises monitoring one or more variables or parameters
15 associated with security of documents that are to be printed on the printer.

21. (Canceled).

22. (Original) The printer management method of claim 19, wherein
20 said monitoring comprises monitoring one or more variables or parameters
associated with memory usage activities of the printer.

23. (Original) The printer management method of claim 19, wherein
said monitoring comprises monitoring one or more variables or parameters

associated with data ratios pertaining to an amount of data transmitted by the printer versus an amount of data received by the printer.

24. (Original) The printer management method of claim 19, wherein
5 said monitoring comprises monitoring one or more variables or parameters associated with the volume of data transmitted by the printer.

25. (Original) The printer management method of claim 19, wherein
said monitoring takes place from internally of the printer.

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26. (Original) The printer management method of claim 19, wherein
said monitoring takes place from externally of the printer.

27. (Currently Amended) A printer management method comprising:
15 providing multiple printers in an organization;
linking the printers together via an organization network;
monitoring activities of the multiple printers;
determining whether one or more printer activities meets one or more usage
profiles associated with each of the printers, the usage profiles being associated
20 with the security of each associated printer, wherein at least one usage profile is
defined in terms of one or more variables or parameters associated with I/O
activities of data that is to be or has been printed on the printer; and

taking a programmed action in the event that one or more printer activities
meets one or more usage profiles for an associated printer.

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28. (Currently Amended) A printing system comprising:

multiple printers; and

one or more printer monitors associated with one or more of the multiple printers, the one or more printer monitors being configured to monitor one or more variables or parameters associated with the security of the one or more printers,
5 wherein at least one of the one or more variables or parameters is associated with I/O activities associated with data that has been or is to be printed on an associated printer.

10 29. (Original) The printing system of claim 28, wherein at least one printer monitor is disposed internally of an associated printer.

30. (Original) The printing system of claim 28, wherein at least one printer monitor is disposed externally of an associated printer.

15 31. (Original) The printing system of claim 28, wherein the one or more printer monitors are configured to generate notifications to a printer authority in an event of a security breach.

20 32. (Canceled).

33. (Original) The printing system of claim 28, wherein the one or more printer monitors are configured to monitor one or more variables or parameters associated with memory usage activities of the one or more printers.

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34. (Original) The printing system of claim 28, wherein the one or more printer monitors are configured to monitor one or more variables or parameters associated with data ratios pertaining to an amount of data transmitted by a printer versus an amount of data received by the printer.

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35. (Original) The printing system of claim 28 further comprising a network linking the printers together.